

ABSTRACT

A multi-joint drive mechanism includes a bone-member layer member (101) in which a plurality of bone members are arranged in arrays and in a generally planar fashion, the plurality of bone members being movably coupled at coupling portions (3A), and elastically expanding/contracting members (3) which are arranged so as to stretch over the coupling portions on one side or both sides of the bone-member layer member and moreover which are fixed between the plurality of bone members, wherein the multi-joint drive mechanism drives flexural motions of joints between the plurality of adjoining bone members by expanding or contracting the elastically expanding/contracting member.